A Reliable Research Partner in Life Science and Medicine

Recombinant Human HtrA2/Omi Protein (His Tag)

Catalog No. PKSH031504

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Serine protease HTRA2;mitochondrial;High temperature requirement protein

A2;HtrA2;Omi stress-regulated endoprotease;Serine protease 25;Serine proteinase

OMI;HTRA2;OMI;PRSS25

Species Human
Expression Host E.coli

Sequence Ala 134-Glu 458

AccessionO43464-1Calculated Molecular Weight36.5 kDaObserved molecular weight36.5 kDaTagC-His

Bioactivity Protease activity demonstrated by HtrA2 cleavage of bovine β-casein (Sigma,

Catalog # C-6905). Incubation of β -case in at 0.2 mg/mL with Recombinant Human HTRA-2 at 0.02 mg/mL (ratio of 10:1) for 60 minutes at 45°C in 50 mM Tris, pH 8.0, which results in > 95% cleavage of β -case in, as revealed by SDS-PAGE.

Properties

Purity > 87 % as determined by reducing SDS-PAGE.

Endotoxin Please contact us for more information.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 50mM Tris, 0.3M NaCl, 1mM DTT, 20% Glycerol, pH 7.8

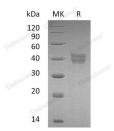
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 87 % as determined by reducing SDS-PAGE.

For Research Use Only

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Background

Serine protease HTRA2, also known as high temperature requirement protein A2, Omi stress-regulated endoprotease, Serine protease 25, Serine proteinase OMI and HTRA2, is a single-pass membrane protein which belongs to thepeptidase S1B family. HTRA2 contains onePDZ (DHR) domain. HTRA2 is a serine protease that shows proteolytic activity against a non-specific substrate beta-casein. It promotes or induces cell death either by direct binding to and inhibition of BIRC proteins (also called inhibitor of apoptosis proteins, IAPs), leading to an increase in caspase activity, or by a BIRC inhibition-independent, caspase-independent and serine protease activity-dependent mechanism. HTRA2 cleaves THAP5 and promotes its degradation during apoptosis. Isoform 2of HTRA2 seems to be proteolytically inactive. Defects in HTRA2 are the cause of Parkinson disease type 13 (PARK13) which is a complex neurodegenerative disorder characterized by bradykinesia, resting tremor, muscular rigidity and postural instability, as well as by a clinically significant response to treatment with levodopa.

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